

APPENDIX A

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APPENDIX B

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APPENDIX C: PRINCIPAL COMPONENTS

Principal Components of Full-Parameter Constituent Algorithm 1 which differentiates SILs
 5 from Normal Squamous Tissues. Results reported for calibration set:

Legend	PC1	PC3	PC7
1	0.630	-0.576	0.288
1	0.590	-0.460	0.294
1	0.902	-0.849	-0.034
1	1.150	-0.678	-0.104
1	-0.413	-0.179	-0.150
1	-1.190	-0.171	-0.225
1	0.489	-0.049	-0.138
1	0.200	-0.163	-0.130
1	-0.889	-0.457	-0.104
1	1.060	-0.256	-0.253
1	1.290	-0.360	-0.143
1	-0.113	-0.220	-0.162
1	0.610	-0.108	-0.031
1	-1.460	-0.554	-0.129
1	0.468	-0.314	-0.262
1	1.290	-0.422	-0.093
1	0.174	-0.690	-0.156
1	0.428	-0.798	-0.225
1	1.290	-0.742	-0.362
1	1.410	-0.530	-0.154
1	0.284	-0.518	-0.331
1	2.220	-1.400	-0.137
1	1.160	-0.191	-0.116
1	0.231	-0.099	-0.247
1	1.640	-0.271	-0.249
1	0.538	-0.179	-0.112
1	-0.864	0.032	0.118
1	0.130	-0.273	-0.135
1	0.152	0.029	-0.010
1	-0.978	-0.702	0.095
1	0.635	-0.120	-0.079
1	1.660	-0.683	0.002
1	0.934	-0.401	-0.150
1	0.692	0.015	0.144
1	0.018	-0.363	-0.094
1	0.401	-0.085	0.071
1	0.187	-0.146	-0.043
1	0.132	-0.142	-0.175
1	-0.593	-1.260	-0.103
1	1.140	-0.565	-0.353
1	-0.349	-0.423	-0.147
1	0.717	-0.084	-0.373

1	-0.128	0.065	-0.141
1	1.570	-0.223	-0.171
1	1.500	-0.661	0.034
1	-1.210	-0.545	-0.126
1	-0.009	-0.104	-0.175
1	0.553	-0.169	-0.117
1	0.247	0.010	0.125
1	0.502	-0.182	-0.039
1	1.620	-0.247	-0.210
1	1.350	-0.546	-0.311
1	0.940	-0.690	-0.236
1	-0.258	-0.276	-0.033
1	0.369	-0.385	-0.347
1	-0.185	-0.227	-0.011
1	0.602	-0.642	-0.358
1	0.890	-0.963	-0.797
1	0.864	-0.463	-0.326
1	1.090	-0.548	-0.336
1	0.003	-0.152	-0.122
1	0.087	-0.153	-0.161
1	0.182	-0.315	-0.114
1	0.666	-0.437	-0.389
1	1.470	-0.874	-0.148
1	0.055	-0.492	-0.119
1	1.200	-0.728	-0.438
1	1.430	-0.442	-0.285
1	0.991	-0.580	-0.409
1	-0.454	-0.600	-0.174
1	0.659	-0.931	-0.505
1	0.225	-0.266	-0.351
1	-1.110	-0.519	-0.184
1	1.060	-0.390	-0.392
1	1.650	-0.584	-0.146
1	0.026	-0.048	-0.140
1	0.112	-0.466	-0.318
1	1.710	-0.561	-0.275
1	1.630	-0.918	-0.353
1	0.624	-0.490	-0.182
1	0.051	-0.922	-0.164
1	0.197	-0.004	0.003
1	-0.814	-0.239	0.066
1	-1.510	-0.399	0.135
1	0.403	-0.161	-0.281
1	0.043	-0.967	-0.132
1	-1.940	-1.510	-0.130
1	-0.980	-0.603	0.107
1	0.468	-0.327	-0.141
1	0.174	-1.140	0.033
1	1.220	-0.413	-0.340
1	1.110	-0.272	-0.135
1	0.096	-0.299	-0.195

1	-1.190	-0.083	-0.324
2	-0.642	-0.115	-0.100
2	-0.421	-0.074	-0.194
2	-0.170	-0.293	-0.344
2	-1.680	-1.210	-0.469
2	-0.828	-0.215	-0.426
2	-0.327	-0.096	-0.287
2	-1.690	-0.350	-0.090
2	-1.330	-0.709	-0.367
2	-0.481	0.261	-0.238
2	-0.623	-0.126	0.095
2	0.035	-0.325	-0.319
2	-0.809	-0.255	-0.329
2	-0.764	-0.153	-0.095
3	-1.850	-1.730	0.225
3	-0.299	-0.487	0.162
3	-0.205	-0.496	-0.077
3	1.990	-1.760	-0.094
3	-0.612	-0.292	-0.084
3	-1.110	-1.070	-0.083
3	-1.300	-0.330	-0.103
3	-0.176	-0.114	0.061
3	-1.460	-0.228	-0.519
3	-0.435	-0.881	-0.072
4	-0.286	-0.057	0.141
4	-1.080	-0.546	-0.247
4	-1.140	-0.573	-0.438
4	-0.649	-0.848	0.010
4	-1.770	-1.110	-0.186
4	-1.140	-0.881	-0.392
4	1.940	-1.980	0.130
4	-0.839	-0.500	-0.069
4	-1.550	-0.608	-0.328
4	-0.263	-0.158	-0.309
4	1.590	-0.250	-0.311
4	-1.030	-0.353	-0.182
4	-1.420	-0.641	-0.278
4	-0.864	-0.313	-0.018
4	-0.095	-0.982	0.087
5	0.415	-0.346	-0.154
5	-1.320	-0.560	-0.359
5	0.716	-0.066	0.068
5	-1.010	-0.403	-0.571
5	-0.057	-1.040	-0.162
5	0.067	-0.471	-0.615
5	0.702	-1.080	-0.830
5	0.297	-0.568	0.185
5	-0.403	-0.508	-0.164
5	1.060	-1.030	-0.079
5	-0.971	-0.624	-0.294
5	-1.300	-0.254	-0.693

5	-1.200	-0.041	-0.474
5	-0.276	0.347	-0.453
5	0.183	-0.273	-0.343
5	-0.616	-0.661	-0.506
5	-0.318	-0.323	-0.240
5	-0.406	-0.773	-0.154
5	-0.451	-0.297	-0.447
5	0.557	-0.088	-0.262
5	-0.208	-0.863	-0.223
5	-0.258	0.027	-0.437
5	-0.400	-0.813	-0.122
6	-0.382	-1.460	0.152
6	-1.370	-0.247	-0.609
6	-0.616	-0.256	-0.112
6	0.390	-0.182	-0.235
6	-0.546	-0.424	-0.129
6	0.768	-1.170	-0.515
6	-0.770	-0.906	-0.002
6	-1.810	-0.883	-0.097
6	0.026	-1.210	-0.334
6	-1.060	-0.393	-0.111
6	-1.370	-0.783	-0.251
6	0.880	-0.476	-0.368
6	-0.589	-0.346	-0.384
6	0.662	-1.040	-0.347
6	-0.292	-0.048	-0.470
6	-0.106	-0.239	-0.073
6	-1.020	-0.816	-0.129
6	-0.484	-0.425	-0.207
6	-0.834	-0.521	-0.006
6	-1.340	-1.860	-0.283
6	-0.084	-0.197	-0.125
6	-0.733	-0.689	-0.253
6	-0.788	-0.409	-0.028
6	-1.280	-1.410	-0.298
6	-0.816	-0.099	-0.078
6	-1.160	-1.060	0.185
6	-0.434	-0.092	-0.075
6	-0.139	-1.300	-0.195
6	-0.768	0.120	-0.300
6	-0.951	-0.441	-0.219
6	-0.392	-0.307	-0.727
6	-0.015	0.071	-0.171
6	-1.430	-0.619	-0.127
6	-1.110	-1.070	-0.104
6	-1.360	-0.504	-0.699

Principal Components of Full-Parameter Constituent Algorithm 2 which differentiates SILs from Normal Columnar Tissues. Results reported for calibration set:

L	PC1	PC2	PC4	PC5
1	0.413	-0.096	-0.067	-0.134
1	0.763	-0.119	-0.089	0.078
1	0.674	0.403	-0.184	0.040
1	1.100	0.472	-0.308	0.210
1	0.381	0.166	0.253	-0.064
1	-0.309	-0.278	-0.048	-0.080
1	0.664	-0.169	-0.038	-0.021
1	-0.083	-0.204	0.161	-0.003
1	-1.210	-0.193	-0.096	-0.109
1	0.053	-0.105	0.207	0.083
1	0.258	-0.055	0.162	-0.217
1	0.021	-0.009	-0.110	0.127
1	0.357	0.091	0.072	0.112
1	-1.020	-0.412	-0.765	-0.043
1	-0.089	-0.065	-0.025	0.045
1	0.842	0.141	-0.168	-0.017
1	0.020	0.016	0.009	0.047
1	0.263	0.199	0.016	0.127
1	1.190	0.055	-0.406	-0.087
1	0.913	0.102	-0.215	-0.359
1	0.685	0.127	0.152	0.159
1	0.224	-0.241	0.032	0.071
1	1.070	0.314	-0.017	-0.022
1	0.914	-0.262	0.391	-0.103
1	1.790	-0.233	-0.561	-0.166
1	0.557	0.127	-0.101	0.017
1	-0.310	-0.323	-0.217	-0.136
1	0.422	0.134	0.046	0.005
1	0.164	-0.325	0.074	0.010
1	-1.050	0.274	-0.081	-0.224
1	0.845	-0.057	-0.089	0.163
1	0.733	-0.462	-0.653	-0.422
1	0.084	-0.271	0.128	0.041
1	0.792	-0.338	0.092	-0.166
1	0.560	0.264	0.209	-0.040
1	0.535	0.180	0.189	0.013
1	0.318	0.209	0.133	0.137
1	0.521	0.174	0.058	0.179
1	0.067	0.747	-0.188	0.072
1	1.300	-0.134	-0.288	-0.060
1	-0.049	0.134	0.312	-0.153
1	0.494	0.152	0.079	0.033
1	0.183	-0.462	0.144	0.071
1	1.420	0.051	-0.340	-0.033
1	1.300	-0.384	-0.421	-0.279
1	-0.383	0.239	-0.255	-0.165
1	0.341	-0.111	-0.067	0.114

1	0.443	0.169	0.408	0.132
1	0.289	-0.053	0.099	0.016
1	1.210	-0.378	0.141	0.187
1	1.060	0.199	-0.337	-0.096
1	0.631	-0.161	-0.164	-0.054
1	0.795	0.417	-0.069	0.166
1	0.209	0.189	0.050	0.012
1	1.080	-0.132	0.267	-0.027
1	0.425	0.065	0.001	0.217
1	0.079	0.044	-0.094	0.066
1	0.275	0.053	-0.175	-0.043
1	0.843	0.151	-0.142	0.129
1	1.550	0.030	-0.181	0.243
1	0.626	-0.096	0.135	0.033
1	0.482	-0.093	0.075	0.070
1	0.599	-0.019	0.143	0.048
1	0.849	0.389	-0.038	0.100
1	0.494	-0.108	-0.082	-0.002
1	0.505	-0.274	0.209	-0.007
1	1.470	-0.026	-0.380	-0.059
1	1.050	0.296	-0.017	-0.050
1	0.845	-0.148	-0.065	-0.001
1	-0.030	0.380	0.107	-0.095
1	0.405	0.217	-0.119	0.186
1	0.563	-0.104	0.039	0.131
1	-0.809	-0.244	-0.451	0.206
1	0.552	0.085	-0.066	0.107
1	1.070	-0.184	-0.589	-0.234
1	0.312	-0.133	-0.028	0.084
1	0.183	0.048	0.129	0.003
1	1.410	0.112	-0.637	-0.194
1	0.852	-0.304	-0.304	-0.381
1	0.508	-0.419	0.008	-0.018
1	0.257	0.368	-0.054	0.018
1	0.573	0.077	-0.080	0.010
1	-0.156	-0.155	-0.338	0.124
1	-0.885	-0.231	-0.527	-0.055
1	0.313	-0.447	0.072	0.271
1	0.103	0.574	0.086	0.037
1	0.151	0.359	0.135	-0.162
1	0.129	0.140	0.188	-0.140
1	-0.081	-0.156	0.219	0.155
1	0.093	0.716	-0.151	-0.032
1	0.265	-0.348	0.374	0.251
1	0.674	-0.365	-0.125	-0.049
1	0.457	-0.110	0.050	0.070
1	0.089	-0.378	-0.401	0.031
2	-0.616	-0.363	-0.106	0.101
2	-0.258	-0.340	-0.080	-0.043
2	-0.543	-0.072	-0.197	-0.002
2	-1.190	0.109	-0.003	0.020

2	-0.407	-0.526	0.177	-0.005
2	-0.123	-0.199	0.107	0.142
2	-0.813	-0.344	-0.523	0.010
2	-1.180	-0.174	0.041	-0.079
2	-0.677	-0.544	-0.032	-0.061
2	-0.603	-0.250	-0.259	0.088
2	-0.323	0.114	0.197	0.061
2	-1.290	-0.338	0.078	-0.082
2	-0.968	-0.028	0.228	0.046
3	-0.714	0.263	-0.224	0.128
3	-0.432	-0.297	0.090	-0.260
3	-0.246	0.003	0.116	0.079
3	-0.045	0.128	0.036	0.090
3	-0.087	0.367	0.180	0.018
3	-0.988	0.348	0.061	-0.227
3	-1.470	-0.567	-0.515	-0.060
3	-0.260	-0.288	0.266	-0.152
3	-1.800	-0.666	-0.386	-0.044
3	-0.163	0.543	0.082	-0.165
4	-0.446	-0.511	0.187	-0.238
4	-0.224	0.330	0.114	0.034
4	-1.030	0.176	-0.054	0.084
4	-0.730	0.394	0.214	-0.147
4	-1.440	0.154	-0.394	-0.036
4	-0.771	0.256	0.054	0.055
4	-0.127	0.288	-0.166	0.085
4	-0.672	0.244	0.185	-0.124
4	-0.671	0.193	-0.103	0.078
4	0.060	-0.285	0.133	0.006
4	1.020	0.142	-0.438	-0.001
4	-0.425	-0.080	-0.119	0.006
4	-0.999	0.142	-0.198	0.047
4	0.268	-0.186	0.184	-0.075
4	-0.717	0.356	-0.096	0.030
5	0.240	-0.121	0.021	0.126
5	-0.593	0.039	-0.421	0.007
5	0.372	-0.086	-0.063	-0.200
5	-1.480	-0.321	-0.188	0.232
5	-0.954	0.501	0.298	0.105
5	-0.442	-0.102	0.232	0.014
5	-0.073	0.109	0.100	0.315
5	0.265	0.389	0.032	-0.144
5	-0.276	0.371	0.166	-0.075
5	-0.055	0.431	-0.243	-0.376
5	-0.451	-0.360	0.221	-0.354
5	-1.040	-0.285	-0.166	0.302
5	-0.642	-0.475	0.058	0.085
5	-0.755	-0.254	0.592	0.010
5	-0.490	-0.434	0.179	0.045
5	0.063	-0.043	0.092	0.089
5	-0.327	-0.135	0.005	-0.019

5	0.043	0.292	0.345	-0.252
5	-0.109	-0.355	0.106	0.298
5	1.010	-0.267	-0.130	0.085
5	-0.457	0.147	0.117	-0.196
5	0.130	0.181	0.331	0.119
5	-0.551	0.157	0.103	-0.121
6	-0.668	1.010	0.133	0.016
6	-0.601	-0.219	-0.273	0.268
6	-0.488	-0.070	-0.079	-0.058
6	0.045	0.046	0.046	-0.072
6	-0.278	0.004	-0.230	-0.055
6	-0.156	0.620	0.129	0.208
6	-0.553	0.533	0.069	-0.216
6	-1.190	-0.493	-0.774	0.083
6	-0.735	0.701	0.163	-0.019
6	-0.619	0.066	-0.068	-0.078
6	-0.926	0.028	0.101	-0.023
6	0.361	0.116	-0.041	-0.064
6	-0.339	0.180	0.181	-0.054
6	0.488	0.172	-0.086	0.000
6	-0.271	-0.517	0.171	0.199
6	0.269	-0.207	0.095	-0.099
6	-0.136	0.233	0.077	-0.103
6	0.066	-0.330	0.455	-0.310
6	-0.660	0.283	0.093	-0.132
6	-1.400	1.460	-0.371	0.665
6	0.296	0.131	-0.031	0.090
6	-0.235	-0.047	-0.327	0.147
6	-0.529	-0.019	0.127	-0.117
6	-1.510	0.623	0.091	0.344
6	0.064	-0.064	-0.030	-0.076
6	-0.373	1.040	-0.099	-0.280
6	-0.075	-0.130	0.077	-0.130
6	0.479	0.206	-0.047	0.080
6	-0.092	-0.433	0.087	0.045
6	-0.364	0.010	-0.046	0.126
6	-1.220	-0.321	0.804	0.698
6	-0.196	-0.155	0.300	0.123
6	-0.347	-0.111	-0.024	-0.097
6	-0.479	-0.206	0.047	-0.080
6	-0.078	0.406	0.047	0.227

Principal Components of Full-Parameter Constituent Algorithm 3 which differentiates HG SILs from LG SILs. Results reported for calibration set.

L	PC1	PC3	PC6	PC8
1	0.630	-0.576	-0.733	-0.127
1	0.590	-0.460	-0.800	-0.113
1	0.902	-0.849	-0.480	-1.080
1	1.150	-0.678	-1.070	-0.601
1	-0.413	-0.179	-0.777	-0.231
1	-1.190	-0.171	-0.859	-0.273
1	0.489	-0.049	-0.676	-0.292
1	0.200	-0.163	-0.819	-0.476
1	-0.889	-0.457	-0.883	-0.420
1	1.060	-0.256	-0.807	-0.268
1	1.290	-0.360	-0.860	-0.321
1	-0.113	-0.220	-0.879	-0.511
1	0.610	-0.108	-0.927	-0.446
1	-1.460	-0.554	-1.050	-0.356
1	0.468	-0.314	-1.010	-0.557
1	1.290	-0.422	-0.800	-0.340
1	0.174	-0.690	-0.966	-0.505
1	0.428	-0.798	-0.975	-0.517
1	1.290	-0.742	-0.809	-0.214
1	1.410	-0.530	-0.942	-0.253
1	0.284	-0.518	-0.950	-0.454
1	2.220	-1.400	-0.802	-0.765
1	1.160	-0.191	-0.919	-0.652
1	0.231	-0.099	-0.907	-0.476
1	1.640	-0.271	-0.678	-0.411
1	0.538	-0.179	-0.942	-0.693
1	-0.864	0.032	-0.905	-0.388
1	0.130	-0.273	-1.110	-0.464
1	0.152	0.029	-0.958	-0.725
1	-0.978	-0.702	-1.240	-0.666
1	0.635	-0.120	-0.823	-0.554
1	1.660	-0.683	-0.848	-0.439
1	0.934	-0.401	-0.956	-0.532
1	0.692	0.015	-0.850	-0.492
1	0.018	-0.363	-0.938	-0.491
1	0.401	-0.085	-0.984	-0.561
1	0.187	-0.146	-1.030	-0.532
1	0.132	-0.142	-1.050	-0.625
1	-0.593	-1.260	-1.070	-0.557
1	1.140	-0.565	-0.758	-0.378
1	-0.349	-0.423	-0.766	-0.458
1	0.717	-0.084	-0.918	-0.529
1	-0.128	0.065	-0.820	-0.553
1	1.570	-0.223	-0.801	-0.474
1	1.500	-0.661	-0.754	-0.278
1	-1.210	-0.545	-0.776	-0.353
1	-0.009	-0.104	-0.816	-0.518

1	0.553	-0.169	-0.939	-0.618
1	0.247	0.010	-0.968	-0.611
1	0.502	-0.182	-1.010	-0.522
1	1.620	-0.247	-0.887	-0.497
1	1.350	-0.546	-0.791	-0.528
1	0.940	-0.690	-1.040	-0.574
1	-0.258	-0.276	-1.020	-0.645
1	0.369	-0.385	-0.836	-0.745
1	-0.185	-0.227	-1.060	-0.527
1	0.602	-0.642	-0.865	-0.293
1	0.890	-0.963	-1.510	-0.591
1	0.864	-0.463	-1.050	-0.461
1	1.090	-0.548	-0.932	-0.358
1	0.003	-0.152	-0.927	-0.361
1	0.087	-0.153	-0.861	-0.595
1	0.182	-0.315	-0.965	-0.411
1	0.666	-0.437	-0.994	-0.330
1	1.470	-0.874	-0.725	-0.089
1	0.055	-0.492	-1.000	-0.383
1	1.200	-0.728	-0.907	-0.348
1	1.430	-0.442	-0.902	-0.446
1	0.991	-0.580	-0.889	-0.315
1	-0.454	-0.600	-1.040	-0.611
1	0.659	-0.931	-0.672	-0.599
1	0.225	-0.266	-0.918	-0.373
1	-1.110	-0.519	-0.988	-0.279
1	1.060	-0.390	-0.991	-0.485
1	1.650	-0.584	-0.973	-0.558
1	0.026	-0.048	-0.880	-0.406
1	0.112	-0.466	-0.980	-0.447
1	1.710	-0.561	-0.755	-0.408
1	1.630	-0.918	-1.230	-0.470
1	0.624	-0.490	-0.944	-0.599
1	0.051	-0.922	-0.990	-0.450
1	0.197	-0.004	-0.908	-0.510
1	-0.814	-0.239	-0.815	-0.289
1	-1.510	-0.399	-0.932	-0.328
1	0.403	-0.161	-1.000	-0.616
1	0.043	-0.967	-0.972	-0.665
1	-1.940	-1.510	-0.728	-0.651
1	-0.980	-0.603	-0.988	-0.440
1	0.468	-0.327	-0.855	-0.442
1	0.174	-1.140	-0.843	-0.627
1	1.220	-0.413	-0.873	-0.518
1	1.110	-0.272	-0.801	-0.410
1	0.096	-0.299	-0.956	-0.524
1	-1.190	-0.083	-0.928	-0.501
2	-0.642	-0.115	-0.891	-0.659
2	-0.421	-0.074	-0.746	-0.336
2	-0.170	-0.293	-0.999	-0.479
2	-1.680	-1.210	-0.052	-0.787

2	-0.828	-0.215	-0.730	-0.495
2	-0.327	-0.096	-0.893	-0.541
2	-1.690	-0.350	-1.570	0.044
2	-1.330	-0.709	-0.869	-0.413
2	-0.481	0.261	-0.864	-0.420
2	-0.623	-0.126	-0.913	-0.550
2	0.035	-0.325	-0.990	-0.496
2	-0.809	-0.255	-0.765	-0.478
2	-0.764	-0.153	-0.959	-0.573
3	-1.850	-1.730	-1.060	-1.300
3	-0.299	-0.487	-0.796	-0.542
3	-0.205	-0.496	-0.880	-0.481
3	1.990	-1.760	-0.752	-0.609
3	-0.612	-0.292	-1.150	-0.562
3	-1.110	-1.070	-0.996	-0.604
3	-1.300	-0.330	-1.240	-0.852
3	-0.176	-0.114	-0.995	-0.616
3	-1.460	-0.228	-1.110	-0.520
3	-0.435	-0.881	-1.090	-0.533
4	-0.286	-0.057	-0.928	-0.711
4	-1.080	-0.546	-0.964	-0.488
4	-1.140	-0.573	-1.030	-0.261
4	-0.649	-0.848	-1.060	-0.411
4	-1.770	-1.110	-0.822	-0.476
4	-1.140	-0.881	-0.894	-0.408
4	1.940	-1.980	-0.856	-0.521
4	-0.839	-0.500	-0.955	-0.571
4	-1.550	-0.608	-1.180	-0.232
4	-0.263	-0.158	-0.744	-0.297
4	1.590	-0.250	-0.869	-0.474
4	-1.030	-0.353	-0.739	-0.284
4	-1.420	-0.641	-1.030	-0.377
4	-0.864	-0.313	-1.090	-0.495
4	-0.095	-0.982	-1.050	-0.451
5	0.415	-0.346	-0.649	-0.850
5	-1.320	-0.560	-0.940	-0.282
5	0.716	-0.066	-0.872	-0.464
5	-1.010	-0.403	-1.070	-0.492
5	-0.057	-1.040	-1.090	-0.594
5	0.067	-0.471	-1.020	-0.277
5	0.702	-1.080	-1.610	-0.545
5	0.297	-0.568	-1.020	-0.626
5	-0.403	-0.508	-0.966	-0.386
5	1.060	-1.030	-1.030	-0.227
5	-0.971	-0.624	-0.731	-0.284
5	-1.300	-0.254	-1.590	-0.970
5	-1.200	-0.041	-1.020	-0.759
5	-0.276	0.347	-0.762	-0.781
5	0.183	-0.273	-0.794	-0.676
5	-0.616	-0.661	-0.989	-0.818
5	-0.318	-0.323	-1.130	-0.570

5	-0.406	-0.773	-0.981	-0.286
5	-0.451	-0.297	-1.050	-0.430
5	0.557	-0.088	-0.927	-0.665
5	-0.208	-0.863	-0.967	-0.484
5	-0.258	0.027	-0.908	-0.372
5	-0.400	-0.813	-0.967	-0.583
6	-0.382	-1.460	-0.829	-0.076
6	-1.370	-0.247	-0.950	-0.132
6	-0.616	-0.256	-0.867	-0.432
6	0.390	-0.182	-0.796	-0.355
6	-0.546	-0.424	-1.200	-0.654
6	0.768	-1.170	-1.140	-0.381
6	-0.770	-0.906	-0.862	-0.358
6	-1.810	-0.883	-1.110	-0.225
6	0.026	-1.210	-0.959	-0.584
6	-1.060	-0.393	-0.945	-0.578
6	-1.370	-0.783	-0.837	-0.544
6	0.880	-0.476	-0.936	-0.372
6	-0.589	-0.346	-1.040	-0.451
6	0.662	-1.040	-0.993	-0.515
6	-0.292	-0.048	-0.985	-0.457
6	-0.106	-0.239	-0.796	-0.440
6	-1.020	-0.816	-0.936	-0.213
6	-0.484	-0.425	-0.757	-0.417
6	-0.834	-0.521	-1.000	-0.586
6	-1.340	-1.860	-0.571	-0.439
6	-0.084	-0.197	-1.010	-0.541
6	-0.733	-0.689	-1.050	-0.421
6	-0.788	-0.409	-0.958	-0.358
6	-1.280	-1.410	-1.210	-0.353
6	-0.816	-0.099	-0.780	-0.370
6	-1.160	-1.060	-1.060	-0.531
6	-0.434	-0.092	-0.785	-0.477
6	-0.139	-1.300	-0.827	-0.555
6	-0.768	0.120	-0.628	-0.568
6	-0.951	-0.441	-1.110	-0.085
6	-0.392	-0.307	-0.411	-0.213
6	-0.015	0.071	-0.829	-0.420
6	-1.430	-0.619	-1.150	-0.767
6	-1.110	-1.070	-0.843	-0.648
6	-1.360	-0.504	-0.251	-0.591
	-1.940	-1.980	-1.610	-1.300

Principal Components of Reduced-Parameter Constituent Algorithm 1 which differentiates SILs from Normal Squamous Tissues. Results reported for calibration set.

L	PC1	PC2	PC3	PC4	PC6
1	0.748	-1.370	0.432	-0.128	-0.580
1	0.747	-1.380	0.432	-0.128	-0.602
1	0.857	-1.490	0.644	-0.281	-0.410
1	0.937	-1.410	0.678	-0.111	-0.615
1	0.513	-1.310	0.791	-0.172	-0.572
1	0.150	-1.190	0.803	-0.165	-0.552
1	0.828	-1.280	0.772	-0.179	-0.553
1	0.768	-1.370	0.870	-0.187	-0.568
1	0.334	-1.350	0.819	-0.183	-0.606
1	0.929	-1.340	0.657	-0.183	-0.589
1	0.989	-1.300	0.676	-0.143	-0.577
1	0.584	-1.320	0.789	-0.170	-0.590
1	0.807	-1.300	0.716	-0.165	-0.584
1	-0.221	-1.050	0.509	-0.117	-0.515
1	0.729	-1.360	0.699	-0.146	-0.575
1	0.969	-1.320	0.646	-0.158	-0.575
1	0.701	-1.450	0.734	-0.056	-0.563
1	0.773	-1.490	0.722	-0.071	-0.577
1	0.878	-1.270	0.697	-0.173	-0.622
1	0.766	-1.120	0.535	-0.141	-0.550
1	0.645	-1.370	0.690	-0.125	-0.534
1	0.741	-0.828	0.386	-0.060	-0.589
1	0.972	-1.270	0.761	-0.146	-0.541
1	0.680	-1.260	0.774	-0.179	-0.578
1	0.993	-1.100	0.718	-0.213	-0.566
1	0.848	-1.340	0.819	-0.130	-0.508
1	0.316	-1.180	0.794	-0.125	-0.533
1	0.579	-1.310	0.730	-0.077	-0.535
1	0.738	-1.250	0.851	-0.083	-0.509
1	0.303	-1.370	0.816	0.046	-0.575
1	0.862	-1.290	0.736	-0.124	-0.524
1	0.975	-1.140	0.635	-0.116	-0.564
1	0.935	-1.330	0.763	-0.065	-0.530
1	0.897	-1.270	0.703	-0.111	-0.528
1	0.697	-1.380	0.821	-0.085	-0.551
1	0.789	-1.300	0.724	-0.075	-0.523
1	0.701	-1.320	0.700	-0.073	-0.536
1	0.676	-1.340	0.765	-0.110	-0.541
1	0.433	-1.540	0.666	0.109	-0.541
1	0.910	-1.340	0.776	-0.315	-0.621
1	0.557	-1.370	0.781	-0.099	-0.481
1	0.923	-1.300	0.873	-0.105	-0.514
1	0.628	-1.210	0.845	-0.101	-0.473
1	1.060	-1.170	0.705	-0.141	-0.543
1	0.897	-1.140	0.598	-0.167	-0.600
1	0.143	-1.310	0.845	-0.269	-0.687

1	0.635	-1.310	0.807	-0.185	-0.568
1	0.867	-1.360	0.763	-0.069	-0.531
1	0.771	-1.250	0.769	-0.051	-0.472
1	0.763	-1.330	0.681	-0.114	-0.552
1	1.060	-1.170	0.697	-0.135	-0.522
1	1.040	-1.330	0.754	-0.143	-0.568
1	0.898	-1.430	0.724	-0.096	-0.574
1	0.558	-1.330	0.789	-0.059	-0.487
1	0.668	-1.340	0.771	-0.192	-0.536
1	0.582	-1.320	0.713	0.020	-0.537
1	0.771	-1.440	0.656	-0.164	-0.597
1	0.635	-1.280	0.691	-0.059	-0.559
1	0.854	-1.400	0.686	-0.126	-0.585
1	0.876	-1.360	0.640	-0.142	-0.599
1	0.679	-1.260	0.784	0.006	-0.511
1	0.690	-1.320	0.834	-0.146	-0.491
1	0.711	-1.340	0.753	-0.096	-0.524
1	0.694	-1.300	0.677	-0.099	-0.546
1	0.812	-1.160	0.545	-0.188	-0.640
1	0.671	-1.390	0.754	-0.054	-0.556
1	0.869	-1.300	0.844	-0.337	-0.660
1	1.000	-1.300	0.724	-0.160	-0.568
1	0.860	-1.350	0.693	-0.166	-0.576
1	0.476	-1.340	0.738	0.152	-0.500
1	0.804	-1.500	0.728	-0.141	-0.576
1	0.729	-1.330	0.790	-0.069	-0.509
1	0.167	-1.360	0.671	-0.096	-0.558
1	0.929	-1.330	0.733	-0.087	-0.542
1	0.933	-1.110	0.651	-0.113	-0.562
1	0.581	-1.270	0.710	-0.182	-0.577
1	0.655	-1.370	0.765	-0.077	-0.570
1	0.921	-1.070	0.652	-0.187	-0.548
1	0.753	-1.010	0.620	-0.111	-0.522
1	0.730	-1.320	0.687	-0.124	-0.546
1	0.615	-1.430	0.692	-0.014	-0.552
1	0.640	-1.150	0.655	-0.012	-0.445
1	0.155	-1.200	0.583	-0.225	-0.573
1	-0.120	-1.140	0.592	-0.191	-0.573
1	0.694	-1.280	0.727	-0.123	-0.544
1	0.556	-1.460	0.645	-0.043	-0.506
1	-0.245	-1.390	0.594	-0.170	-0.560
1	0.126	-1.310	0.639	-0.083	-0.486
1	0.726	-1.330	0.668	-0.131	-0.559
1	0.633	-1.490	0.669	-0.076	-0.568
1	0.879	-1.260	0.732	-0.224	-0.559
1	0.898	-1.260	0.606	-0.183	-0.567
1	0.641	-1.290	0.788	-0.113	-0.552
1	-0.132	-0.941	0.564	-0.168	-0.439
2	0.407	-1.260	0.803	-0.116	-0.546
2	0.494	-1.260	0.841	-0.228	-0.586
2	0.474	-1.350	0.762	-0.273	-0.653

2	0.009	-1.650	0.734	-0.455	-0.352
2	0.254	-1.280	0.903	-0.364	-0.616
2	0.496	-1.250	0.868	-0.143	-0.534
2	-0.170	-1.120	0.642	0.053	-0.728
2	0.179	-1.460	0.977	-0.370	-0.650
2	0.490	-1.170	0.905	-0.200	-0.513
2	0.383	-1.240	0.739	-0.193	-0.555
2	0.585	-1.320	0.819	-0.163	-0.569
2	0.376	-1.310	0.890	-0.186	-0.557
2	0.403	-1.230	0.785	-0.018	-0.471
3	-0.201	-1.510	0.489	-0.004	-0.466
3	0.590	-1.380	0.739	-0.071	-0.536
3	0.593	-1.380	0.751	-0.082	-0.539
3	0.658	-0.962	0.373	-0.144	-0.665
3	0.520	-1.370	0.890	-0.003	-0.508
3	0.279	-1.550	0.839	-0.186	-0.608
3	-0.062	-1.080	0.662	-0.004	-0.488
3	0.657	-1.310	0.849	-0.085	-0.530
3	-0.090	-1.100	0.788	-0.163	-0.527
3	0.533	-1.490	0.769	0.040	-0.530
4	0.549	-1.290	0.801	-0.188	-0.538
4	0.270	-1.390	0.864	-0.182	-0.633
4	0.241	-1.450	0.882	-0.166	-0.635
4	0.455	-1.470	0.764	-0.005	-0.613
4	-0.119	-1.380	0.636	-0.180	-0.601
4	0.162	-1.460	0.753	-0.179	-0.605
4	0.610	-1.010	0.285	-0.158	-0.690
4	0.394	-1.360	0.826	-0.039	-0.551
4	-0.007	-1.290	0.706	0.034	-0.564
4	0.494	-1.260	0.818	-0.195	-0.556
4	0.999	-1.150	0.673	-0.154	-0.518
4	0.243	-1.310	0.784	-0.140	-0.667
4	0.102	-1.290	0.656	0.177	-0.501
4	0.176	-1.190	0.687	-0.058	-0.504
4	0.444	-1.430	0.540	-0.059	-0.606
5	0.731	-1.380	0.721	-0.247	-0.437
5	0.004	-1.260	0.744	-0.204	-0.625
5	0.864	-1.330	0.667	-0.177	-0.579
5	-0.023	-1.140	0.653	-0.274	-0.600
5	0.671	-1.540	0.729	0.059	-0.539
5	0.622	-1.400	0.823	-0.079	-0.534
5	0.495	-1.230	0.677	-0.069	-0.513
5	0.759	-1.440	0.780	-0.097	-0.608
5	0.581	-1.450	0.835	-0.080	-0.588
5	0.782	-1.360	0.539	-0.088	-0.662
5	0.242	-1.380	0.812	-0.253	-0.647
5	-0.019	-1.210	0.932	-0.074	-0.532
5	0.194	-1.230	0.990	-0.170	-0.529
5	0.682	-1.160	1.080	-0.110	-0.391
5	0.750	-1.330	0.848	-0.108	-0.485
5	0.274	-1.370	0.748	-0.135	-0.538

5	0.510	-1.360	0.785	-0.090	-0.560
5	0.533	-1.440	0.781	-0.053	-0.590
5	0.468	-1.350	0.903	-0.216	-0.532
5	0.747	-1.160	0.733	0.027	-0.441
5	0.593	-1.450	0.746	0.072	-0.555
5	0.570	-1.230	0.841	-0.065	-0.504
5	0.451	-1.430	0.709	-0.052	-0.607
6	0.499	-1.670	0.458	0.002	-0.634
6	0.015	-1.220	0.779	-0.226	-0.605
6	0.427	-1.310	0.809	-0.164	-0.589
6	0.760	-1.390	0.745	-0.267	-0.633
6	0.262	-1.270	0.734	-0.141	-0.603
6	0.825	-1.540	0.724	-0.006	-0.617
6	0.389	-1.470	0.767	-0.072	-0.623
6	-0.249	-1.250	0.494	-0.049	-0.592
6	0.698	-1.590	0.770	0.038	-0.580
6	0.255	-1.360	0.910	-0.258	-0.648
6	0.178	-1.460	0.854	-0.178	-0.598
6	0.857	-1.340	0.784	-0.122	-0.570
6	0.402	-1.320	0.813	-0.063	-0.534
6	0.677	-1.460	0.632	-0.088	-0.583
6	0.485	-1.190	0.900	-0.112	-0.512
6	0.610	-1.260	0.765	-0.104	-0.553
6	0.271	-1.440	0.752	-0.104	-0.621
6	0.498	-1.390	0.801	-0.156	-0.573
6	0.405	-1.380	0.790	0.034	-0.527
6	0.165	-1.830	0.499	-0.127	-0.531
6	0.582	-1.320	0.755	-0.166	-0.580
6	0.352	-1.410	0.689	-0.041	-0.538
6	0.413	-1.340	0.805	-0.068	-0.574
6	0.065	-1.510	0.689	0.089	-0.554
6	0.364	-1.240	0.845	-0.212	-0.586
6	0.261	-1.440	0.720	0.055	-0.573
6	0.538	-1.270	0.802	-0.074	-0.507
6	0.526	-1.580	0.615	-0.049	-0.606
6	0.397	-1.150	0.778	0.019	-0.473
6	0.292	-1.310	0.758	0.000	-0.584
6	0.433	-1.370	0.797	-0.322	-0.716
6	0.635	-1.190	0.803	-0.116	-0.483
6	-0.064	-1.230	0.813	-0.203	-0.636
6	0.254	-1.530	0.733	-0.091	-0.587
6	0.037	-1.230	0.671	-0.260	-0.454

Principal Components of Reduced-Parameter Constituent Algorithm 2 which differentiates SILs from Normal Columnar Tissues. Results reported for calibration set:

L	PC1	PC2	PC5
1	0.118	0.022	0.021
1	0.238	0.021	-0.035
1	0.190	-0.095	0.056
1	0.275	-0.114	0.013
1	0.195	-0.053	0.002
1	-0.127	0.084	0.008
1	0.222	0.044	0.000
1	0.003	0.056	-0.018
1	-0.429	0.065	0.027
1	0.088	0.007	-0.042
1	0.146	0.031	0.032
1	-0.017	-0.012	-0.005
1	0.174	-0.022	-0.028
1	-0.542	0.127	0.036
1	-0.044	0.029	0.007
1	0.249	-0.052	-0.006
1	0.007	-0.005	-0.016
1	0.079	-0.046	-0.015
1	0.267	0.051	0.074
1	0.247	-0.009	0.039
1	0.248	-0.052	-0.085
1	0.083	0.050	-0.048
1	0.340	-0.073	0.011
1	0.342	0.089	0.057
1	0.463	0.124	0.095
1	0.166	-0.026	0.027
1	-0.170	0.089	0.018
1	0.155	-0.058	-0.047
1	0.079	0.084	-0.009
1	-0.370	-0.067	0.062
1	0.272	0.012	-0.021
1	0.110	0.177	0.131
1	0.060	0.062	-0.019
1	0.280	0.087	0.026
1	0.268	-0.086	-0.002
1	0.239	-0.068	-0.024
1	0.151	-0.084	-0.042
1	0.186	-0.063	-0.034
1	-0.004	-0.200	0.026
1	0.353	0.058	0.026
1	0.087	-0.044	0.019
1	0.179	-0.028	0.005
1	0.092	0.130	-0.046
1	0.390	0.011	0.028
1	0.334	0.147	0.086

1	-0.201	-0.065	0.108
1	0.098	0.024	-0.007
1	0.249	-0.036	-0.036
1	0.123	0.008	-0.024
1	0.425	0.087	-0.039
1	0.277	-0.047	0.043
1	0.172	0.061	0.032
1	0.237	-0.106	-0.018
1	0.077	-0.071	-0.037
1	0.396	0.027	-0.057
1	0.146	-0.042	-0.037
1	0.025	-0.034	-0.002
1	0.029	0.016	0.025
1	0.239	-0.038	-0.004
1	0.449	-0.020	-0.026
1	0.243	0.026	-0.016
1	0.187	0.024	-0.015
1	0.243	0.002	-0.015
1	0.261	-0.106	-0.007
1	0.149	0.042	-0.006
1	0.209	0.071	0.000
1	0.363	0.059	0.063
1	0.346	-0.066	0.022
1	0.257	0.043	0.004
1	0.013	-0.115	0.011
1	0.092	-0.062	0.014
1	0.184	0.042	-0.029
1	-0.373	0.015	-0.060
1	0.164	-0.035	-0.018
1	0.207	0.125	0.111
1	0.114	0.006	-0.034
1	0.081	-0.019	-0.004
1	0.284	0.057	0.120
1	0.240	0.125	0.079
1	0.175	0.140	0.039
1	0.086	-0.106	0.021
1	0.171	-0.018	0.027
1	-0.129	0.000	-0.033
1	-0.405	0.057	0.038
1	0.116	0.117	-0.099
1	0.046	-0.147	-0.003
1	0.064	-0.058	0.068
1	0.081	-0.045	-0.014
1	0.025	0.025	-0.059
1	0.015	-0.203	0.040
1	0.158	0.074	-0.079
1	0.229	0.079	0.011
1	0.146	0.032	-0.029
1	-0.110	0.113	-0.017
2	-0.243	0.099	-0.029
2	-0.111	0.109	0.025

2	-0.304	0.052	0.062
2	-0.388	-0.008	0.038
2	-0.134	0.168	0.031
2	-0.044	0.049	-0.038
2	-0.412	0.076	0.010
2	-0.389	0.069	0.008
2	-0.242	0.152	-0.002
2	-0.258	0.059	0.013
2	-0.074	-0.025	0.009
2	-0.388	0.079	0.004
2	-0.248	-0.046	-0.042
3	-0.231	-0.054	0.051
3	-0.099	0.063	0.031
3	-0.026	-0.027	-0.041
3	-0.007	-0.058	-0.025
3	0.013	-0.095	0.008
3	-0.297	-0.118	0.056
3	-0.660	0.204	0.066
3	0.003	0.065	-0.010
3	-0.696	0.166	0.012
3	-0.027	-0.141	0.058
4	-0.108	0.129	-0.005
4	-0.021	-0.098	0.026
4	-0.376	-0.046	-0.024
4	-0.176	-0.140	0.012
4	-0.517	-0.055	0.028
4	-0.241	-0.087	-0.031
4	-0.057	-0.129	-0.003
4	-0.158	-0.096	0.019
4	-0.260	-0.036	-0.052
4	0.031	0.075	-0.007
4	0.224	-0.024	0.027
4	-0.187	0.032	0.049
4	-0.356	-0.083	-0.054
4	0.131	0.052	-0.016
4	-0.260	-0.123	0.010
5	0.071	0.037	-0.041
5	-0.311	0.000	0.043
5	0.086	0.008	0.030
5	-0.536	0.088	0.012
5	-0.223	-0.170	-0.050
5	-0.126	0.049	-0.037
5	-0.031	-0.035	-0.072
5	0.098	-0.098	0.074
5	-0.042	-0.110	0.013
5	-0.068	-0.098	0.127
5	-0.178	0.116	0.065
5	-0.439	0.122	-0.028
5	-0.224	0.156	0.001
5	-0.106	0.111	-0.024
5	-0.115	0.111	-0.033

5	-0.002	-0.006	-0.061
5	-0.107	0.033	0.003
5	0.094	-0.065	0.033
5	-0.038	0.052	-0.144
5	0.300	0.072	-0.012
5	-0.122	-0.060	-0.001
5	0.092	-0.012	-0.002
5	-0.145	-0.052	0.026
6	-0.157	-0.274	-0.011
6	-0.295	0.073	-0.065
6	-0.173	0.017	0.006
6	-0.021	-0.002	0.017
6	-0.157	-0.009	0.046
6	-0.066	-0.166	-0.028
6	-0.165	-0.151	0.059
6	-0.581	0.115	0.014
6	-0.190	-0.212	-0.011
6	-0.226	-0.014	0.047
6	-0.259	-0.011	0.013
6	0.092	-0.019	0.013
6	-0.079	-0.032	-0.007
6	0.112	-0.015	0.036
6	-0.116	0.187	-0.076
6	0.117	0.048	-0.009
6	-0.028	-0.079	0.007
6	0.075	0.072	0.009
6	-0.197	-0.081	0.022
6	-0.477	-0.439	-0.113
6	0.097	-0.037	-0.012
6	-0.157	-0.019	-0.019
6	-0.133	-0.010	0.015
6	-0.525	-0.174	-0.121
6	0.025	-0.008	0.011
6	-0.100	-0.314	0.069
6	-0.003	0.034	-0.007
6	0.137	-0.049	-0.018
6	-0.024	0.142	-0.038
6	-0.143	-0.011	-0.045
6	-0.232	0.011	-0.195
6	-0.007	0.023	-0.085
6	-0.110	0.073	0.136
6	-0.137	0.049	0.018
6	0.035	-0.101	-0.044

Principal Components of Reduced-Parameter Constituent Algorithm 3 which differentiates HG SILs from LG SILs. Results reported for calibration set:

L	PC1	PC3	PC4	PC7	PC8
1	0.748	0.432	-0.128	-0.304	0.052
1	0.747	0.432	-0.128	-0.281	0.032
1	0.857	0.644	-0.281	-0.223	-0.014
1	0.937	0.678	-0.111	-0.172	0.008
1	0.513	0.791	-0.172	-0.254	0.075
1	0.150	0.803	-0.165	-0.271	0.013
1	0.828	0.772	-0.179	-0.232	0.077
1	0.768	0.870	-0.187	-0.229	0.074
1	0.334	0.819	-0.183	-0.214	0.086
1	0.929	0.657	-0.183	-0.175	0.017
1	0.989	0.676	-0.143	-0.192	0.039
1	0.584	0.789	-0.170	-0.191	0.032
1	0.807	0.716	-0.165	-0.186	0.061
1	-0.221	0.509	-0.117	-0.193	0.006
1	0.729	0.699	-0.146	-0.164	-0.011
1	0.969	0.646	-0.158	-0.243	0.051
1	0.701	0.734	-0.056	-0.198	0.045
1	0.773	0.722	-0.071	-0.173	0.048
1	0.878	0.697	-0.173	-0.207	0.061
1	0.766	0.535	-0.141	-0.252	0.031
1	0.645	0.690	-0.125	-0.159	0.030
1	0.741	0.386	-0.060	-0.187	0.026
1	0.972	0.761	-0.146	-0.177	0.032
1	0.680	0.774	-0.179	-0.173	-0.008
1	0.993	0.718	-0.213	-0.176	0.021
1	0.848	0.819	-0.130	-0.191	0.019
1	0.316	0.794	-0.125	-0.281	0.117
1	0.579	0.730	-0.077	-0.253	0.043
1	0.738	0.851	-0.083	-0.222	0.022
1	0.303	0.816	0.046	-0.252	0.020
1	0.862	0.736	-0.124	-0.213	0.054
1	0.975	0.635	-0.116	-0.166	0.056
1	0.935	0.763	-0.065	-0.199	0.032
1	0.897	0.703	-0.111	-0.214	0.063
1	0.697	0.821	-0.085	-0.210	0.052
1	0.789	0.724	-0.075	-0.205	0.049
1	0.701	0.700	-0.073	-0.166	0.025
1	0.676	0.765	-0.110	-0.149	0.018
1	0.433	0.666	0.109	-0.136	0.032
1	0.910	0.776	-0.315	-0.154	0.016
1	0.557	0.781	-0.099	-0.220	0.041
1	0.923	0.873	-0.105	-0.146	0.044
1	0.628	0.845	-0.101	-0.248	0.048
1	1.060	0.705	-0.141	-0.167	0.050
1	0.897	0.598	-0.167	-0.198	0.053
1	0.143	0.845	-0.269	-0.243	0.063
1	0.635	0.807	-0.185	-0.218	0.032

1	0.867	0.763	-0.069	-0.180	0.047
1	0.771	0.769	-0.051	-0.227	0.054
1	0.763	0.681	-0.114	-0.185	0.040
1	1.060	0.697	-0.135	-0.152	0.042
1	1.040	0.754	-0.143	-0.162	0.049
1	0.898	0.724	-0.096	-0.164	0.022
1	0.558	0.789	-0.059	-0.246	0.035
1	0.668	0.771	-0.192	-0.236	0.012
1	0.582	0.713	0.020	-0.188	0.026
1	0.771	0.656	-0.164	-0.163	0.065
1	0.635	0.691	-0.059	-0.154	0.021
1	0.854	0.686	-0.126	-0.151	0.025
1	0.876	0.640	-0.142	-0.171	0.003
1	0.679	0.784	0.006	-0.245	0.046
1	0.690	0.834	-0.146	-0.232	0.035
1	0.711	0.753	-0.096	-0.184	0.067
1	0.694	0.677	-0.099	-0.267	0.044
1	0.812	0.545	-0.188	-0.228	0.083
1	0.671	0.754	-0.054	-0.210	0.059
1	0.869	0.844	-0.337	-0.190	0.049
1	1.000	0.724	-0.160	-0.220	0.042
1	0.860	0.693	-0.166	-0.203	0.027
1	0.476	0.738	0.152	-0.252	0.040
1	0.804	0.728	-0.141	-0.229	0.005
1	0.729	0.790	-0.069	-0.184	0.056
1	0.167	0.671	-0.096	-0.196	0.078
1	0.929	0.733	-0.087	-0.182	0.015
1	0.933	0.651	-0.113	-0.140	0.035
1	0.581	0.710	-0.182	-0.189	0.026
1	0.655	0.765	-0.077	-0.175	0.022
1	0.921	0.652	-0.187	-0.134	0.057
1	0.753	0.620	-0.111	-0.150	0.059
1	0.730	0.687	-0.124	-0.156	0.047
1	0.615	0.692	-0.014	-0.194	0.086
1	0.640	0.655	-0.012	-0.197	0.053
1	0.155	0.583	-0.225	-0.285	0.020
1	-0.120	0.592	-0.191	-0.257	0.052
1	0.694	0.727	-0.123	-0.111	0.012
1	0.556	0.645	-0.043	-0.189	0.026
1	-0.245	0.594	-0.170	-0.183	0.030
1	0.126	0.639	-0.083	-0.304	0.065
1	0.726	0.668	-0.131	-0.153	0.055
1	0.633	0.669	-0.076	-0.202	0.052
1	0.879	0.732	-0.224	-0.150	0.048
1	0.898	0.606	-0.183	-0.163	0.012
1	0.641	0.788	-0.113	-0.198	0.044
1	-0.132	0.564	-0.168	-0.220	0.026
2	0.407	0.803	-0.116	-0.236	0.019
2	0.494	0.841	-0.228	-0.215	0.088
2	0.474	0.762	-0.273	-0.165	-0.025
2	0.009	0.734	-0.455	-0.235	0.006

2	0.254	0.903	-0.364	-0.250	0.029
2	0.496	0.868	-0.143	-0.251	0.048
2	-0.170	0.642	0.053	-0.182	0.033
2	0.179	0.977	-0.370	-0.191	0.081
2	0.490	0.905	-0.200	-0.187	0.089
2	0.383	0.739	-0.193	-0.216	0.066
2	0.585	0.819	-0.163	-0.209	0.060
2	0.376	0.890	-0.186	-0.235	0.030
2	0.403	0.785	-0.018	-0.141	0.036
3	-0.201	0.489	-0.004	-0.120	0.018
3	0.590	0.739	-0.071	-0.266	0.060
3	0.593	0.751	-0.082	-0.214	0.036
3	0.658	0.373	-0.144	-0.215	0.064
3	0.520	0.890	-0.003	-0.197	0.075
3	0.279	0.839	-0.186	-0.219	0.000
3	-0.062	0.662	-0.004	-0.218	-0.037
3	0.657	0.849	-0.085	-0.260	0.031
3	-0.090	0.788	-0.163	-0.164	-0.063
3	0.533	0.769	0.040	-0.221	0.048
4	0.549	0.801	-0.188	-0.269	0.003
4	0.270	0.864	-0.182	-0.217	-0.049
4	0.241	0.882	-0.166	-0.156	0.065
4	0.455	0.764	-0.005	-0.233	0.054
4	-0.119	0.636	-0.180	-0.140	0.016
4	0.162	0.753	-0.179	-0.159	0.040
4	0.610	0.285	-0.158	-0.228	0.068
4	0.394	0.826	-0.039	-0.232	0.028
4	-0.007	0.706	0.034	-0.163	0.062
4	0.494	0.818	-0.195	-0.259	0.031
4	0.999	0.673	-0.154	-0.135	0.046
4	0.243	0.784	-0.140	-0.259	0.081
4	0.102	0.656	0.177	-0.171	0.064
4	0.176	0.687	-0.058	-0.244	0.054
4	0.444	0.540	-0.059	-0.266	-0.008
5	0.731	0.721	-0.247	-0.203	0.018
5	0.004	0.744	-0.204	-0.144	0.012
5	0.864	0.667	-0.177	-0.183	0.050
5	-0.023	0.653	-0.274	-0.144	-0.129
5	0.671	0.729	0.059	-0.158	0.048
5	0.622	0.823	-0.079	-0.172	0.052
5	0.495	0.677	-0.069	-0.142	0.045
5	0.759	0.780	-0.097	-0.250	0.025
5	0.581	0.835	-0.080	-0.207	0.035
5	0.782	0.539	-0.088	-0.211	0.007
5	0.242	0.812	-0.253	-0.244	0.067
5	-0.019	0.932	-0.074	-0.118	-0.131
5	0.194	0.990	-0.170	-0.168	-0.026
5	0.682	1.080	-0.110	-0.099	0.095
5	0.750	0.848	-0.108	-0.183	0.016
5	0.274	0.748	-0.135	-0.177	-0.021
5	0.510	0.785	-0.090	-0.151	0.033

5	0.533	0.781	-0.053	-0.257	0.069
5	0.468	0.903	-0.216	-0.185	0.049
5	0.747	0.733	0.027	-0.273	0.027
5	0.593	0.746	0.072	-0.242	0.035
5	0.570	0.841	-0.065	-0.162	0.041
5	0.451	0.709	-0.052	-0.199	0.006
6	0.499	0.458	0.002	-0.240	0.081
6	0.015	0.779	-0.226	-0.126	0.069
6	0.427	0.809	-0.164	-0.204	0.055
6	0.760	0.745	-0.267	-0.175	0.051
6	0.262	0.734	-0.141	-0.294	-0.078
6	0.825	0.724	-0.006	-0.153	0.040
6	0.389	0.767	-0.072	-0.268	0.073
6	-0.249	0.494	-0.049	-0.104	0.052
6	0.698	0.770	0.038	-0.118	0.030
6	0.255	0.910	-0.258	-0.261	0.024
6	0.178	0.854	-0.178	-0.207	0.024
6	0.857	0.784	-0.122	-0.242	0.050
6	0.402	0.813	-0.063	-0.157	0.043
6	0.677	0.632	-0.088	-0.153	0.052
6	0.485	0.900	-0.112	-0.182	0.083
6	0.610	0.765	-0.104	-0.241	0.046
6	0.271	0.752	-0.104	-0.250	0.024
6	0.498	0.801	-0.156	-0.235	0.047
6	0.405	0.790	0.034	-0.223	0.055
6	0.165	0.499	-0.127	-0.037	0.107
6	0.582	0.755	-0.166	-0.159	0.039
6	0.352	0.689	-0.041	-0.145	0.039
6	0.413	0.805	-0.068	-0.245	0.067
6	0.065	0.689	0.089	-0.153	0.038
6	0.364	0.845	-0.212	-0.256	0.079
6	0.261	0.720	0.055	-0.232	0.054
6	0.538	0.802	-0.074	-0.253	0.071
6	0.526	0.615	-0.049	-0.174	0.050
6	0.397	0.778	0.019	-0.201	0.059
6	0.292	0.758	0.000	-0.217	0.052
6	0.433	0.797	-0.322	-0.248	0.037
6	0.635	0.803	-0.116	-0.195	0.064
6	-0.064	0.813	-0.203	-0.183	-0.045
6	0.254	0.733	-0.091	-0.194	0.050
6	0.037	0.671	-0.260	-0.106	0.115

APPENDIX D: PRINCIPAL COMPONENTS

<u>337 nm excitation</u>		<u>460 nm excitation</u>		<u>380 excitation</u>		<u>460 excitation</u>	
E1	E2	E1	E2	E2	E5	E4	E7
0.12	0.11	-0.147	-0.275	-0.615	0.532	0.69	0.10
0.17	0.12	-0.093	-0.319	-0.464	-0.151	0.09	-0.07
0.22	0.12	-0.074	-0.360	-0.378	-0.1	-0.14	-0.17
0.25	0.11	-0.056	-0.345	-0.317	-0.308	-0.23	-0.07
0.27	0.1	-0.027	-0.314	-0.236	-0.373	-0.24	0.06
0.28	0.11	-0.004	-0.253	-0.157	-0.348	-0.23	0.04
0.28	0.12	0.010	-0.193	-0.086	-0.236	-0.19	0.01
0.28	0.12	0.024	-0.121	-0.04	-0.161	-0.15	0.00
0.28	0.11	0.029	-0.048	-0.004	-0.071	-0.09	-0.05
0.26	0.11	0.016	0.030	0.025	-0.055	-0.01	-0.07
0.24	0.11	-0.001	0.097	0.044	0.013	0.06	-0.07
0.22	0.11	-0.026	0.153	0.06	0.068	0.12	0.24
0.2	0.09	-0.052	0.201	0.06	0.108	0.14	0.40
0.17	0.08	-0.025	0.203	0.055	0.123	0.16	0.30
0.13	0.05	0.019	0.192	0.046	0.159	0.16	0.04
0.09	0.04	0.062	0.160	0.023	0.133	0.16	-0.12
0.06	0.04	0.090	0.153	0.006	0.15	0.14	-0.18
0.02	0.05	0.091	0.153	-0.014	0.089	0.14	-0.14
-0.01	0.05	0.088	0.164	-0.026	0.075	0.16	-0.24
-0.04	0.05	0.087	0.158	-0.044	0.047	0.17	-0.23
-0.06	0.05	0.106	0.146	-0.055	0.025	0.17	-0.16
-0.08	0.07	0.145	0.092	-0.063	-0.018	0.11	-0.12
-0.09	0.09	0.189	0.020	-0.071	-0.089	0.05	-0.18
-0.1	0.11	0.218	-0.023	-0.072	-0.102	0.01	-0.09
-0.11	0.13	0.240	-0.054	-0.078	-0.104	-0.02	0.11
-0.11	0.15	0.249	-0.060	-0.071	-0.078	-0.04	0.04
-0.12	0.17	0.242	-0.073	-0.071	-0.091	-0.03	-0.06
-0.12	0.18	0.238	-0.075	-0.066	-0.087	-0.02	0.08
-0.12	0.2	0.240	-0.064	-0.062	-0.095	-0.03	0.15
-0.11	0.2	0.230	-0.063	-0.06	-0.08	-0.03	0.18
-0.1	0.21	0.221	-0.061	-0.057	-0.067	-0.03	0.19
-0.09	0.22	0.211	-0.060	-0.048	-0.086	-0.02	0.25

-0.08	0.22	0.204	-0.052	-0.039	-0.068	-0.01	0.26
-0.07	0.21	0.199	-0.045	-0.031	-0.039	0.00	0.17
-0.07	0.21	0.185	-0.044	-0.027	-0.034	0.01	0.10
-0.07	0.2	0.181	-0.045	-0.019	-0.028	0.01	0.03
-0.06	0.2	0.176	-0.042	-0.019	-0.032	0.00	-0.02
-0.06	0.19	0.170	-0.037	-0.015	-0.01	0.00	-0.01
-0.06	0.18	0.167	-0.035	-0.008	-0.039	0.01	-0.12
-0.05	0.17	0.159	-0.030	-0.008	-0.037	0.03	-0.13
-0.05	0.16	0.158	-0.032	-0.01	-0.068	0.01	-0.21
-0.05	0.15	0.151	-0.027	-0.009	-0.085	0.01	0.00
-0.05	0.14	0.146	-0.027	-0.005	-0.095	0.00	-0.03
-0.05	0.13	0.137	-0.019	-0.01	-0.069	0.01	0.03
-0.05	0.12	0.128	-0.015	-0.007	-0.084	0.01	0.03
-0.05	0.11			-0.012	-0.034		
-0.05	0.1			-0.012	-0.036		
-0.04	0.11						
-0.04	0.09						
-0.04	0.09						
-0.03	0.09						
-0.03	0.09						
-0.03	0.08						
-0.03	0.08						
-0.03	0.08						
-0.02	0.09						
-0.02	0.12						